Your Name: Azel Merfon

Due: Thursday, Nov 21, in class

Assigned reading for this lecture:

 Look over the <u>survey paper topics</u> suggested in class: see google doc linked on the lecture slides

## **Questions:**

1. Will you be working with a partner for the survey paper? If so, who are you planning to work with?

No.

- 2. What topic have you chosen for investigating in more detail? Give a one paragraph summary of your plan.
- Interactive proofs, zero knowledge proofs & recursion theorem (from our textbook) are some of them. I would like to learn more about problems / statements we couldn't prove statically. What do we gain from introducing this idea of interaction?

Your Name:

Due: Thursday, Nov 21, in class

Assigned reading for this lecture:

Look over the survey paper topics suggested in class: see google doc linked on the lecture slides

## **Questions:**

1. Will you be working with a partner for the survey paper? If so, who are you planning to work with?

Have not found a partura yet, but if interests much, am open to one.

2. What topic have you chosen for investigating in more detail? Give a one paragraph summary of your plan.

Russel Impagliassoi & Would.

- will read and distill the "A personal view of Avers case complexely lapers and the AI blog pist.

- usill attempt to fit it in the a country of the country

- will seek to apply it to some interesting pullem.

Your Name: Noch (pc

Due: Thursday, Nov 21, in class

Assigned reading for this lecture:

• Look over the <u>survey paper topics</u> suggested in class: see google doc linked on the lecture slides

**Questions:** 

1. Will you be working with a partner for the survey paper? If so, who are you planning to work with?

I will be working on my own

2. What topic have you chosen for investigating in more detail? Give a one paragraph summary of your plan.

I will be multigating strag complession. My plan is to
do enough rowling in topicalize the idea of iting comparison. Colomnology
in a proof that follow comparison in period is New pollible. I would
like to be some additional rescorch on additional topics of Kolmorgorov indicator.
And using its language to save other imperiod in results. I would
also like to cornect it to cultant thing complession ideal in also thus.

Due: Thursday, Nov 21, in class

Assigned reading for this lecture:

• Look over the <u>survey paper topics</u> suggested in class: see google doc linked on the lecture slides

Your Name: Kunal Pal

#### Questions:

1. Will you be working with a partner for the survey paper? If so, who are you planning to work with? No, I plan on working alone for the survey paper.

2. What topic have you chosen for investigating in more detail? Give a one paragraph summary of your plan. I would like to investigate Zero-Knowledge Proofs more for the survey paper. I have taken a Cryptography class here, and knowing that these are proofs that would be applicable to that seems so cool. I would want to see and write about how they are written, similarities between these proofs and others, if there are general patterns or ways certain examples look. I would then want to look at examples of these proofs and the types of questions that would incorporate them, and I would hope to come up with my own in this paper, as well.

Your Name: Juan Mendez

Due: Thursday, Nov 21, in class

Assigned reading for this lecture:

 Look over the <u>survey paper topics</u> suggested in class: see google doc linked on the lecture slides

#### Questions:

1. Will you be working with a partner for the survey paper? If so, who are you planning to work with?

I will be working by myself.

2. What topic have you chosen for investigating in more detail? Give a one paragraph summary of your plan.

I have thosen to investigate quantum computation. I will likely rely on YouTube videos, as well as diapter roadings to learn the material.

Due: Thursday, Nov 21, in class

Assigned reading for this lecture:

• Look over the <u>survey paper topics</u> suggested in class: see google doc linked on the lecture slides

**Questions:** 

1. Will you be working with a partner for the survey paper? If so, who are you planning to work with?

Nope

2. What topic have you chosen for investigating in more detail? Give a one paragraph summary of your plan.

Quarter competing

Plan: read Barale ch. 23 & Appro-Barale ch. 10, supplementing with other readings as necessary.

Due: Thursday, Nov 21, in class

Your Name: LOLA Kovalski + Max LAVAL

Assigned reading for this lecture:

Look over the survey paper topics suggested in class: see google doc linked on the lecture slides

## **Questions:**

1. Will you be working with a partner for the survey paper? If so, who are you planning to work with?

Max Litrak

2. What topic have you chosen for investigating in more detail? Give a one paragraph summary of your plan.

We are choosing to explore Impugliazzo's Five worlds, Atherimptications of there would our investigation will focus on understandy he implications of there new (d), of their relevance to inducto computational theory. \* Testadas we may also constory looky at it mough the less of AI but tratio subject to change.

As of now our planis to:

- 1. Read paper 2x before Maring
  2. write 1-page background lovaft by rext tuesdy
  3. Go discuss in office have as he eved

Jarin Sutton paper on quantum a computing. I be working alone. I would like to start with introducing the basics of quantum mechanics I double slit, super position, ..., etc Then exploring the pros and cons of a quantim computer vs. classical. Quantum computers can benefit from an exponential speed up by leveraging principles whee quantum entanglement and superpusition of quantum states (combined rons qubits.) Quantum computers have analogous logic gates to classical computers aut quantum logic gates are mude more complex, encoding on exponential about amount of info for the same n bits